

Claims

- [1] An aqua stopping device for a washing device, comprising:
 - a valve body including a passage formed within;
 - at least one valve for opening and closing the passage;
 - a signal wire connected to a terminal of the valve;
 - a connecting wire connected to the signal wire and extending a predetermined distance therefrom;
 - a connecting portion provided at a portion connecting the signal wire and the connecting wire;
 - an inner case enclosing at least the connecting portion; and
 - an outer case provided at an exterior of the inner case.
- [2] The aqua stopping device according to claim 1, wherein the inner case is attached to an inner surface of the outer case.
- [3] The aqua stopping device according to claim 1, wherein the inner case includes an interior having a filler injected therein.
- [4] The aqua stopping device according to claim 1, wherein the connecting portion has a filler injected therearound.
- [5] The aqua stopping device according to claim 1, further comprising:
 - a connecting tube attached to a lower portion of the valve body for passing wash water therethrough; and
 - an outer tube disposed around an exterior of the connecting tube for enclosing the connecting tube.
- [6] The aqua stopping device according to claim 1, wherein the valve is aligned in plurality along the passage.
- [7] The aqua stopping device according to claim 1, wherein the connecting portion connects two signal wires to one connecting wire.
- [8] The aqua stopping device according to claim 1, wherein an interior space of the outer case is empty.
- [9] The aqua stopping device according to claim 1, wherein the inner case includes an outer surface attached to an inner surface of the outer case.
- [10] The aqua stopping device according to claim 1, wherein the valve is a solenoid valve.
- [11] An aqua stopping device for a washing device, comprising:
 - a valve body including a passage formed within;

at least one solenoid valve for opening and closing the passage;
a signal wire connected to a terminal of the solenoid valve;
a connecting wire connected to the signal wire and extending outward;
a connecting portion formed at a connection of the signal wire and the
connecting wire;
a filler for insulating at least the connecting portion from an outside; and
an outer case spaced from the filler and including an empty space inside.

[12] The aqua stopping device according to claim 11, further comprising an inner
case for providing a space to be filled by the filler.

[13] The aqua stopping device according to claim 12, wherein the filler fills an
entirety of an interior of the inner case.

[14] The aqua stopping device according to claim 12, wherein the inner case includes
an exterior defining an empty space with the outer case.

[15] The aqua stopping device according to claim 11, wherein the solenoid valve and
the signal wire are respectively provided in duplicate.

[16] A washing device comprising:
a tub for holding wash water and articles to wash therein for washing the articles
to wash;
a connecting tube for supplying water to the tub;
a leak detector provided at an exterior of the tub for detecting leaks; and
an aqua stopping device for operating to block a supply of water according to a
detection signal from the leak detector, the aqua stopping device being filled
with a filler only at wire connecting portions in an interior thereof, the interior
being otherwise empty.

[17] The washing device according to claim 16, further comprising:
an inner case including an interior filled with the filler; and
an outer case accommodating the inner case and including an empty interior.

[18] A washing device comprising:
a tub for holding wash water and articles to wash therein for washing the articles
to wash;
a connecting tube for supplying water to the tub;
a leak detector provided at an exterior of the tub for detecting leaks; and
an aqua stopping device for operating to block a supply of water according to a
detection signal from the leak detector; wherein the aqua stopping device
includes:

an inner case having a wire connecting portion in an interior thereof for preventing water from contacting the wire connecting portion; a valve for opening and closing a passage according to the detection signal; and an outer case disposed at a distant exterior of the inner case and defining an empty interior space.

[19] The washing device according to claim 18, wherein the inner case includes an interior space filled with a filler.